

Terraform for Beginners

Day 1: Terraform Fundamentals

- Module 1: Introduction to IaC
- Module 2: Terraform Basics and HCL
- Module 3: Core Workflow and Lifecycle
- Lab 1: First Local Deployment
- Module 4: Local State Management
- Lab 2: Understanding State Behavior
- Lab 3: Terraform Workflow Drill

Day 2: Variables, Remote State & CI/CD Pipeline

- Module 5: Variables and Outputs
- Lab 4: Parameterize Infrastructure
- Module 6: Remote State Management
- Lab 5: Migrate Local to Remote State
- Module 7: Source Code Management (GitHub)
- Lab 6: Setup GitHub with Branching Workflow
- Module 8: CI/CD Pipeline Fundamentals (Jenkins + GitOps)
- Lab 7: Integrate Terraform with Jenkins Pipeline
- Lab 8: Controlled Apply and Merge Workflow

Day 3: Modularity, Multi-Environment, and Governance

- Module 9: Modules and Reusability
- Lab 9: Refactor to Modules
- Module 10: Multi-Environment Deployment
- Lab 10: Multi-Environment Deployment using Workspaces
- Final Project: CloudApp v1.0